

Work Order ID 77493

December-08-11 1:41:50 PM

77493

Page 1

Item ID: D4387-043 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Harness Assembly
 Start Date: 08/12/2011 Start Qty: 4.00 ***4*** Cust Item ID:
 Required Date: 22/12/2011 Req'd Qty: 4.00 ***4*** Customer:
 Reference:

Approvals: Process Plan: M.C.J. Date: 11/12/08 Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|--------------------------------|---|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
| Draw Nbr | Revision Nbr | | | | | | | | |
| D4387 | B | | | | | | | | |
| 100 | PURCHASING | 0.00 | | | | | | | |
| *100* | | | | | | | | | |
| Purchasing | Memo | 0.00 | | | | | | | |
| Purchasing | Issue P/O: <u>15646</u> | | | | | | | | |
| | P/N: 4173-2-021-2396 | | | | | | | | |
| | Possible supplier: Amsafe | | | | | | | | |
| | Certificate of conformaty is required | | | | | | | | |
| 110 | Receive & Inspect for Damage & Mat'l Certs | 0.00 | | | | | | | |
| *110* | | | | | | | | | |
| Packaging | Memo | 0.00 | | | | | | | |
| Packaging | Ensure certificate of conformity is attached | | | | | | | | |
| 120 | QC5- Inspect part completeness to step on W/O | 0.00 | | | | | | | |
| *120* | | | | | | | | | |
| QC | Memo | 0.00 | | | | | | | |
| Quality Control | | | | | | | | | |

CL 11/12/12 (4)

h 11.12.29 (4)

(4)

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries

Work Order ID 77493

77493

Page 2

December-08-11 1:41:50 PM

Item ID: D4387-043 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Harness Assembly
 Start Date: 08/12/2011 Start Qty: 4.00 ***4*** Cust Item ID:
 Required Date: 22/12/2011 Req'd Qty: 4.00 ***4*** Customer:
 Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

| Sequence ID/ Work Center ID | Operation Description | Set Up/ Run Hours | Tool ID | Tool # | Plan Code | Accept Qty | Reject Qty | Reject Number | Insp. Stamp |
|--------------------------------|---|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
| 150 | Identify as per dwg & Stock Location: <u>ST 263</u> | 0.00 | | | | | | | |
| *150* | | | | | | | | | |
| Packaging | Memo | 0.00 | | | | | | | |
| Packaging | | | | | | | | | |
| 160 | QC21- Final Inspection - Work Order Release | 0.00 | | | | | | | |
| *160* | | | | | | | | | |
| QC | Memo | 0.00 | | | | | | | |
| Quality Control | | | | | | | | | |

(4x) Sp 12-01-03

CK 12/01/04

12-01-3
(4)

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

NOTE: Date & initial all entries

Picklist Print

December-08-11 1:41:54 PM

Page 1

Work Order ID: 77493

77493

Parent Item: D4387-043

D4387-043

Parent Item Name: Harness Assembly

Start Date: 08/12/2011

Required Date: 22/12/2011

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP rev A 11.05.25 new issue EC verified by:DD

| Component Item ID/ Item Name | Replacement Item ID | Mfg/ Purch | Bin Item | Primary Location | Last Location | Route Seq ID | Unit of Measure | Qty on Hand | Qty per Kit | Total Qty | Qty Issued | Date Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|

4173-2-021-2396

Purchased

No

Each

0.0000

4

4173-2-021-2396

**

4-point Restraint, Separate Shoulder Straps

OK for u 11/12/29

| W/O: | | WORK ORDER CHANGES | | | | | |
|------|------|--------------------|----|------|-----|-------------------------------------|--------------------------|
| DATE | STEP | PROCEDURE CHANGE | By | Date | Qty | Approval Chief Eng / Prod Mgr | Approval QC Inspector |
| | | | | | | | |
| | | | | | | | |

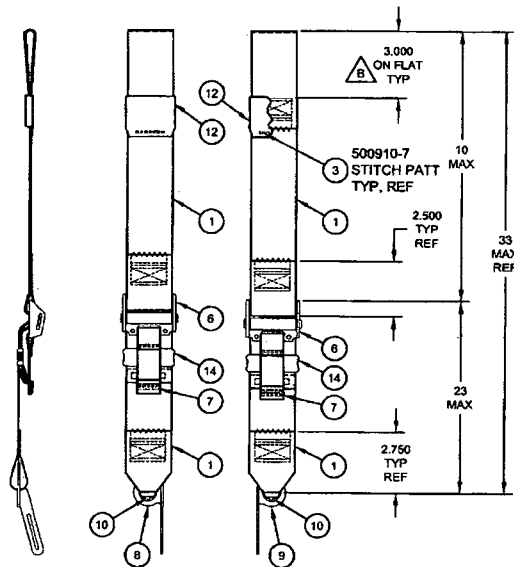
Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

| NCR: | | WORK ORDER NON-CONFORMANCE (NCR) | | | | | | |
|------|------|----------------------------------|-----------------------------|---------------------------------|----------------|---------------------------|-----------------------|--------------------------|
| DATE | STEP | Description of NC Section A | Corrective Action Section B | | | Verification Section C | Approval Chief Eng | Approval QC Inspector |
| | | | Initial Chief Eng | Action Description Chief Eng | Sign & Date | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

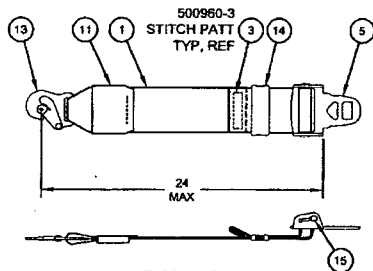
NOTE: Date & initial all entries

SPECIFICATION CONTROL DRAWING

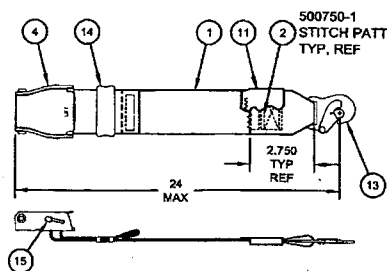


D4387-7

D4387-5



D4387-3



D4387-1

D4387-041 HARNESS ASSEMBLY

| ITEM | QTY -041 | QTY -1 | QTY -3 | QTY -5 | QTY -7 | DART P/N | DESCRIPTION | AMSAFE P/N OR MATERIAL P/N |
|------|-------------|-----------|-----------|-----------|-----------|-----------|--------------------|-------------------------------|
| | X | | | | | D4387-041 | HARNESS ASSEMBLY | 4192-1-011-2396 |
| 1 | | X | | | | D4387-1 | BUCKLE HALF | 4192-2010112396 |
| 1 | | | X | | | D4387-3 | CONNECTOR HALF | 4192-2030112396 |
| 1 | | | | X | | D4387-5 | SHOULDER STRAP | 4192-2050112396 |
| 1 | | | | | X | D4387-7 | SHOULDER STRAP | 4192-2060112396 |
| 1 | | A/R | A/R | A/R | A/R | | WEBBING, POLYESTER | T1200-5 |
| 2 | | A/R | A/R | A/R | A/R | | THREAD | 207 |
| 3 | | A/R | A/R | A/R | A/R | | THREAD | 69 |
| 4 | | 1 | | | | | BUCKLE ASSY | 502750-401 |
| 5 | | | 1 | | | | CONNECTOR ASSY | 504459-417-72 |
| 6 | | | | 1 | 1 | | ADJUSTER ASSY | 503050-409 |
| 7 | | | | 1 | 1 | | PULL TAB | 500976-425 |
| 8 | | | | 1 | 1 | | ADAPTER, HARNESS | 505122-2-72 |
| 9 | | | | 1 | 1 | | ADAPTER, HARNESS | 505122-1-72 |
| 10 | | | | 1 | 1 | | INSERT | AFG0568293 |
| 11 | | 1 | 1 | | | | LABEL | 447664 |
| 12 | | | | 1 | 1 | | LABEL | 447664 |
| 13 | | 1 | 1 | | | | HOOK ASSY | 502737-441-72 |
| 14 | | 1 | 1 | 1 | 1 | | WEB SLIDE | 503984-1 |
| 15 | | 2 | 2 | | | | PLUG | 502913 |


NOTES:

- 1) PURCHASE: D4387-041/-1/-3/-5/-7 FROM AMSAFE INC., Phoenix, AZ.
- 2) FINISH: N/A
- 3) TOLERANCES: .XXX ±0.250
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: USE PLASTIC ENGRAVED TAGS AND LABEL PER FAR 21.607 TO CONTAIN THE FOLLOWING AT MINIMUM:
MANUFACTURER P/N: 4192-1-011-2396
CUSTOMER P/N: D4387-041
DATE OF MFG
CONFORMS TO FAA TSO-C114
- 7) WEIGHT: 1.75 lb
- 8) INDICATED DIMS ARE FULLY EXTENDED LENGTHS

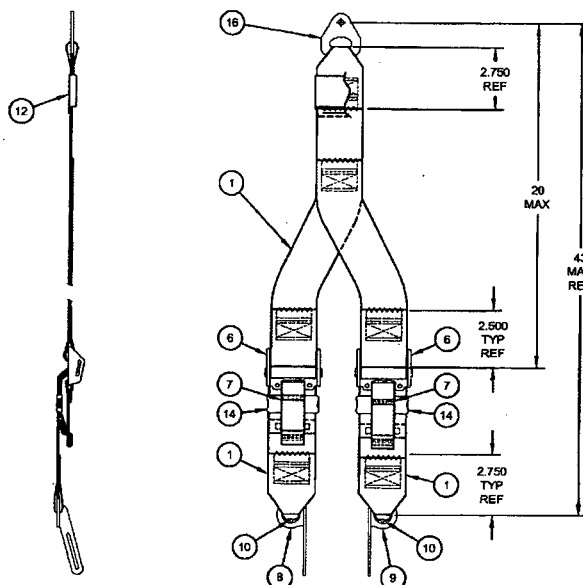
SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 77493

M. C. J
11/12/08

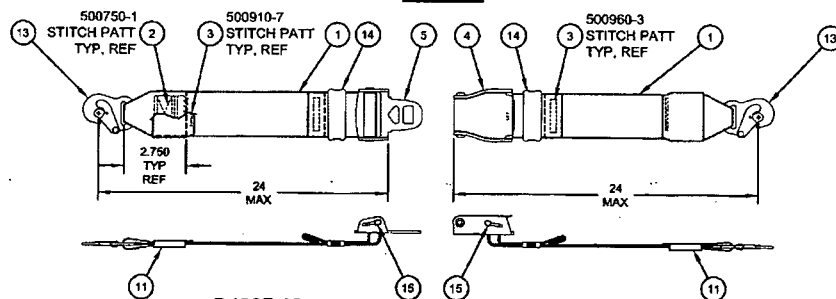
RELEASED
2011-06-16

| | | | |
|---------------------------|---|--|----------|
| B | 3,000 TYP WAS 2,000 TYP (ZN D6-1) (REF. NCR11-644) | MB | 11.06.07 |
| A | NEW ISSUE (REF. CAR10-011) | MB | 11.05.02 |
| REV. | DESCRIPTION | BY | DATE |
| DESIGN |  | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA | |
| DRAWN | | | |
| CHECKED | | | |
| MFG. APPR. | | | |
| APPROVED | | | |
| DE APPR. | | | |
| DATE | 11.06.07 | COPYRIGHT © 2011 BY DART AEROSPACE LTD THIS DOCUMENT IS PRINTED AND CONFIDENTIAL. IT IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. | |
| DRAWING NO. D4387 | | REV. B SHEET 1 OF 2 | |
| TITLE HARNESS ASSEMBLY | | SCALE NTS | |

SPECIFICATION CONTROL DRAWING



D4387-9



D4387-13

D4387-11

D4387-043 HARNESS ASSEMBLY

| ITEM | QTY -043 | QTY -9 | QTY -11 | QTY -13 | DART P/N | DESCRIPTION | AMSAFE P/N OR MATERIAL P/N |
|------|-------------|-----------|------------|------------|-----------|--------------------|-------------------------------|
| | X | | | | D4387-043 | HARNESS ASSEMBLY | 4173-2-021-2396 |
| 1 | X | | | | D4387-9 | SHOULDER STRAP | 4173-2110212396 |
| 1 | | | X | | D4387-11 | BUCKLE HALF | 4173-2070212396 |
| 1 | | | | X | D4387-13 | CONNECTOR HALF | 4173-2090212396 |
| 1 | | A/R | A/R | A/R | | WEBBING, POLYESTER | T1200-5 |
| 2 | | A/R | A/R | A/R | | THREAD | 207 |
| 3 | | A/R | A/R | A/R | | THREAD | 69 |
| 4 | | | 1 | | | BUCKLE ASSY | 502750-401 |
| 5 | | | | 1 | | CONNECTOR ASSY | 504459-417-72 |
| 6 | | 2 | | | | ADJUSTER ASSY | 503050-409 |
| 7 | | 2 | | | | PULL TAB | 500976-425 |
| 8 | | 1 | | | | ADAPTER, HARNESS | 505122-2-72 |
| 9 | | 1 | | | | ADAPTER, HARNESS | 505122-1-72 |
| 10 | | 2 | | | | INSERT | AFG0568293 |
| 11 | | | 1 | 1 | | LABEL | 447664 |
| 12 | | 1 | | | | LABEL | 447664 |
| 13 | | 2 | 1 | 1 | | HOOK ASSY | 502737-441-72 |
| 14 | | | 1 | 1 | | WEB SLIDE | 503964-1 |
| 15 | | | 2 | 2 | | PLUG | 502813 |
| 16 | | 1 | | | | END FITTING | 501743-21-72 |

NOTES:

- 1) PURCHASE: D4387-043/-9/-11/-13 FROM AMSAFE INC., Phoenix, AZ.
- 2) FINISH: N/A
- 3) TOLERANCES: .XXX ±0.250
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: USE PLATIC ENGRAVED TAGS AND LABEL PER FAR 21.607 TO CONTAIN THE FOLLOWING AT MINIMUM:
MANUFACTURER P/N: 4173-2-021-2396
CUSTOMER P/N: D4387-043
DATE OF MFG
CONFORMS TO FAA TSO-C114
- 7) WEIGHT: 1.85 lb
- 8) INDICATED DIMS ARE FULLY EXTENDED LENGTHS

RELEASED
2011-06-16

| | | | |
|------------|----------|---|--------------|
| DESIGN | | DART AEROSPACE LTD | |
| DRAWN | | HAWKESBURY, ONTARIO, CANADA | |
| CHECKED | | DRAWING NO. | REV. B |
| MFG. APPR. | | D4387 | SHEET 2 OF 2 |
| APPROVED | | TITLE | SCALE |
| DE APPR. | | HARNESS ASSEMBLY | NTS |
| DATE | 11.06.07 | COPYRIGHT © 2011 BY DART AEROSPACE LTD THIS DOCUMENT IS UNCLASSIFIED AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR REPRODUCED IN ANY FORM OR BY ANY MEANS WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. | |

| | | | | | | | |
|---|-----------------|---|-------------------|--|--------------------------|---|--|
| 1. Approving National Aviation Authority/Country: FAA/United States | | 2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG | | | | 3. Form Tracking Number: S224109-2-NW | |
| 4. Organization Name and Address: AmSafe Aviation 1043 North 47th Avenue Phoenix, Arizona 85043 | | Cert. No. PT1967NM | | | | 5. Work order/Contract/Invoice Number: S224109 - 2 PAGES ATTACHED | |
| 6. Item: | 7. Description: | 8. Part Number: | 9. Eligibility: * | 10. Quantity: | 11. Serial/Batch Number: | 12. Status/Work: | |
| 1 | REST SYS ASSY | 4173-2-021-2396 | N/A | 4 | A1211 | NEW | |
| 13. Remarks: Drawing: 4173 Rev: E TSO: TSO-C114 | | | | | | | |
| EXPORT AIRWORTHINESS APPROVAL: THIS ARTICLE MEETS THE SPECIAL REQUIREMENTS OF CANADA | | | | | | | |
| 14. Certifies the items identified above were manufactured in conformity to: <input checked="" type="checkbox"/> Approved design data and are in a condition for safe operation <input type="checkbox"/> Non-approved design data specified in Block 13. | | | | 19. <input type="checkbox"/> 14 CFR 43.9 Return to Service <input type="checkbox"/> Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service. | | | |
| 15. Authorized Signature:  | | 16. Approval/Authorization No.: ODA602112NM | | 20. Authorized Signature | | 21. Authorized/Certificate No. | |
| 17. Name (typed or printed) Nancy Williamson | | 18. Date (m/d/y): DEC/22/2011 | | 22. Names (typed or printed) | | 23. Date (m/d/y): | |
| User/Installer Responsibilities | | | | | | | |
| <p>It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/compenents/assemblies from the airworthiness authority of the country specified in Block 1.</p> <p>Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.</p> | | | | | | | |

AMSAFE**AMSAFE AVIATION**

1043 NORTH 47th AVENUE
PHOENIX, AZ 85043
PH (602)850-2850 FAX (602)850-2812

SHIPPER/CERTIFICATION

| CUSTOMER NO. | SALES ORDER NO. | BOL NO. | DATE PRINTED | PAGE NO. |
|--------------|-----------------|-----------|--------------|----------|
| 10006113 | S224109 | 000253369 | 12/27/11 | 1 |

DART AEROSPACE
1270 ABERDEEN STREET
HAWKESBURY
ONTARIO, CANADA K6A 1K7
Canada

DART AEROSPACE LTD.
1270 ABERDEEN ST
HAWKS BURY,, ON K6A 1K7
Canada

Ship to ID: 10006125

| CUSTOMER ORDER NO. | TERMS | FREIGHT | SHIP VIA | F.O.B. |
|--------------------|-------|---------|-------------------|--------|
| P015646 | NET30 | COLLECT | FedEx P1 10:30 AM | ORIGIN |

Sales Order Remarks: 1517-9324-0

Remarks:

SHIPMENT REFERENCE 000253369

| LINE | ITEM NUMBER / DESCRIPTION | DRAWING AND CERTIFICATIONS | DUE DATE | QTY ORDERED | QTY SHIPPED | QTY BACK ORDERED |
|------|----------------------------------|---|--------------------|-------------------|-------------|------------------|
| 2 | 4173-2-021-2396 REST SYS ASSY | DRAWING: 4173 REV: E CERT: TSO-C114 Lot/Serial Numbers Shipped Quantity S224109-2 | 2011-12-30 4.0 | 4 Expire Ref. | 4 4 | 0 |
| 1 | 4192-1-011-2396 REST SYS ASSY | DRAWING: 4192 REV: D CERT: TSO-C114 Lot/Serial Numbers Shipped Quantity S224109-1 | 2011-12-30 12.0 | 12 Expire Ref. | 12 12 | 0 |

I certify that the article(s) listed above conform to all applicable design data, and (as applicable):

FAA PMA, FMVSS 209, FMVSS 302, 14 CFR 25.853, DFARS 252-225-7009

FAA TSO C22f, C22g, C114 or TSO Plus

The conditions and tests required for TSO approval of the article(s) are minimum performance standards. It is the responsibility of those installing the article(s) either on or within a specific type or class of aircraft to determine that the aircraft installation conditions are within the standards applicable to the TSO article including (when applicable) the integrated non-TSO function. The non-TSO function is described as the seat belt airbag system including the inflator cable assembly and electrical components that have not been evaluated for functionality or installation requirements. TSO articles including the integrated non-TSO function must have separate approval for installation in an aircraft. The article(s) may be installed only if performed under 14 CFR part 43 or the applicable airworthiness requirements. Product shipped meets all material, processing and test requirements. Certifications/Test reports as applicable are retained on file at AmSafe Aviation.

AmSafe Authorized Signature: X

Printed Name:

*Jesse Ochoa**Jesse Ochoa*

DEC 27 2011

Dated: / /

COUNTRY OF ORIGIN USA